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BENTON & SMITH NUT TREE NURSERY
Wassaic, N.Y.
U.S. Department of Agriculture

DESCRIPTION AND PRICE LIST 1942-1943.

Our policy is to carry as standard varieties, only those we have grown here and which have fruited, proving that they are adapted to this locality and latitude. Or those varieties, which have their origin in such locations as to make us very sure that they will mature their fruit here and that the trees will prove hardy here.

We also plan to keep abreast of the developement of northern nut growing, from time to time adding to our list such of the very best varieties as prove adaptable to this latitude. We will occasionally have extra trees of varieties which we will advocate only for more southern locations until they have proven themselves here, or for those who are collecting various varieties for testing.

We will fill orders in the order they are received and as our stock of many varieties is very limited we advise ordering early and we will hold trees until you desire delivery, thus you may avoid dissapointment.

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HEARTNUTS

The Fodermaier- The nut of this variety is of good size, cracks easily, the kernels, in large part coming out in whole halves; in flavor it is one of the very best.

The tree grows rapidly, bears annually, and in the winter of 1933-34 the parent tree withstood temperatures of -30 to -34 degrees F. without any appearant injury. A graft of this variety is growing and has fruited at Hanover, N. H. This tree was injured in spring of 1941 by a series of late freezes after growth had started, but some of our native trees are sometimes injured under these conditions.

The Wright- This variety first fruited for us in 1941 and we consider it equal in nut to the Fodermaier, and is described by Mr. Reed of the U. S. Department of Agriculture as being one of the very best. The tree gives considerable indication of being even more hardy than the Fodermaier. Very rapid grower.

These two varieties bloom at the right time to act as good pollenizers for each other.

Prices of all Heartnut trees:

Over 5 feet	\$5.00 each
4 to 5 feet	\$4.50 "
Under 4 feet	\$4.00 "
Measured from point of grafting.	

Some times heartnuts, English walnuts and Butternuts are attacked by the butternut curculio. The larva are found inside

the main stems of the new growth also inside the leaf stems, infected stems will show dark brown refuse about the entry hole.

The U. S. Department of Agriculture, Bureau of Entomology suggests the use of lead-arsenate at the rate of 6 pounds to 50 gallons of water, to be used as a spray. As there is some danger of arsenical injury to the trees, two or three pounds of hydrated lime for each pound of lead-arsenate, should be added to the spray mixture. One should also watch the trees for evidence of arsenical injury.

Spray in early spring as soon as the buds have well opened so as to kill the adult beetles before they lay their eggs. The new growth will need to be kept covered by repeated sprayings about a week apart, probably three or four sprayings should be enough unless you have a nearby source of infection. Spray any butternut trees growing nearby, or if of no value remove them if possible. Do not spray unless you actually have the curculio. We do not recommend the planting of either heartnuts or English walnuts within $\frac{1}{2}$ mile of a large number of butternut or other wild trees that are infected with butternut curculio. Continuous spraying year after year would prove too expensive also the trees might not stand it.

ENGLISH WALNUTS

✓ Broadview- The nuts which we have seen of this variety are as large as the larger of the English walnuts as found in our markets. They mature in Michigan 42 degrees North Latitude. In quality equal to the best of the California English walnuts.

CRATH CARPATHIAN ENGLISH WALNUTS

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✓ Crath #1 & Crath #2- We have seen/nuts of these two varieties but feel sure they will prove fine, as Rev. Crath would not have bothered to send wood of an inferior variety to Prof. Neilson.

✓ Carpathian D- The nut of this variety while rather small, has a thin shell and is of excellent quality. Matures nuts at 42 degrees N. Latitude in Michigan and is thought there to be a good pollenizer.

Prices of all English Walnut Trees.

Over 5 feet	\$5.00
4 to 5 feet	\$4.50
Under 4 feet	\$4.00

HICKORIES

At present nut growers are almost overwhelmed with a tremendous list of varieties of hickory, of many of which little is known as to their relative merits. This is the result of nut contests and the searching-out of superior nut trees by nut enthusiasts.

In a few more years much more will be known about these various varieties as several test orchards are being established

in different parts of the country to test them for different latitudes and conditions. We have such an orchard started in which we have more than a hundred different named varieties of hickory and hickory hybrids, these are just beginning to bear, we have nuts of six different varieties this fall. These we will have tested and rated this winter.

At present the best guide available as to the best varieties to plant, is a list prepared by Mr. C. A. Reed, Associate Pomologist of the U. S. Department of Agriculture. Mr. Reed is no doubt the best authority at present on nut tree varieties. Mr. Reed has listed 14 varieties as the ones he considers best and marks them A., then he has listed 12 more varieties that he considers 2nd best and marks them B. However he stated that time may prove some varieties on the B list to be superior to some of those on the A list, also varieties not on either list may later prove to be superior to those listed.

Another equally valuable source of such information, especially for the Northeast, is a copy of "Arnoldia" written by Dr. L. H. MacDaniels, head of the department of Floriculture and Ornamental Horticulture, Cornell University and printed by the Arnold Arboretum, Harvard University, Jamaica Plain, Mass. We believe this bulletin together with a follow-up bulletin can be purchased from the Arnold Arboretum. They are Bulletin of Popular Information of The Arnold Arboretum, Volume 1, Numbers 9-12 and Volume 2, Number 2. We believe the price is 25¢ each.

✓ Anthony #1- A true shagbark. The original tree grows near Sterling, Ill. and has been known for many years, Rated B by Reed.

✓ Beeman- A Shagbark. The original tree grows near New Preston, Conn. Said to be an annual bearer. So far as we know it has never been entered in a contest and has not been rated by Reed. It's strongest recommendation until further tested is it's northern origin. Recommended by Dr. MacDaniels in "Arnoldia".

✓ Berger- A Shellbark or possibly a Mocker X Shellbark hybrid. Took first prize in the miscellaneous hickory class of the Northern Nut Growers Assn. contest of 1934. The original tree grows near Cove Gap, Penn. Rated A by Reed.

✓ Davis- A Shagbark. First prize winner in the New York & New England contest of 1934 (Best of 442 entries). Nut of medium size, cracking quality of the very best, flavor true shagbark, sweet and rich. A vigorous grower. The original tree grows in Dutchess Co, N. Y., 42 degrees N. Latitude, will likely mature it's nuts somewhat farther north. According to a 1935 graft we have on bitternut stock, it gives promise of being a good bearer. Rated A by Reed. Recommended by MacDaniels in Arnoldia.

✓ Fox- A Shagbark. First prize winner in the Northern Nut Growers Assn. contest of 1934. Nut somewhat larger than Davis, cracking quality excellent, flavor the very best true shagbark quality. A vigorous grower. Original tree grows near Fonda, N. Y. and thus will surely succeed as far north as the Mohawk Valley. Rated A by Reed. Recommended by Dr. MacDaniels in "Arnoldia".

The Davis and Fox are two very fine shagbarks and should be in every hickory planting. We will have nuts of both these varieties on our grafts this fall and will have them tested and

scored, so we may have more information on them this winter.

✓ Slover- A shagbark. An old variety which has stood the test of time. The original tree grows near Shelton, Conn. Rated A by Reed. Recommended by Dr. MacDaniels in "Arnoldia"

✓ Goheen- A Shagbark. Second prize winner in the Northern Nut Growers Assn. contest of 1934. Original tree grows near Pennsylvania Furnace, Penn. Recommended by Dr. Mac Daniels in "Arnoldia".

✓ Hagen- A shagbark. Discovered in 1920 by Snyder Bros. of Center Point, Iowa. and probably originated in Iowa. Rated A by Reed.

✓ Hand- A shagbark. Also discovered in 1920 by Snyder Bros. Also probably an Iowa nut. Rated A by Reed.

✓ Heibner- A shagbark. Original tree grows near Danville, Iowa. Rated B. by Reed.

✓ Jolliff- A shagbark. This appears to be a very good variety but the original tree grows near Uffington, West Virginia, so we do not advocate it for northern planting until it has proved itself here in the north. Rated A. by Reed.

✓ Kentucky- A shagbark. Original tree grows near East View, Kentucky. We do not advise northern planting at present.

✓ Kirtland- A shagbark. This is one of the older named varieties and has stood the test of time as it is still one of the top rated varieties. Original tree grows near Yalesville, Conn. Rated A by Reed. Recommended by Dr. MacDaniels in "Arnoldia".

✓ Lingenfelter- A shagbark. Original tree grows near McKee, Penn. Mr. Reed considers this variety with a good deal of favor as to bearing and especially as to cracking quality, based on the record of a graft growing in a test planting at Beltsville, Md. However until our 1936 graft of this variety has fruited we can hardly recommend it north of Pennsylvania. Rated B by Reed.

✓ Miller- Original tree grows near North Branch, Mich. Should be well suited to northern planting. Rated B by Reed. Recommended by Dr. MacDaniels in "Arnoldia".

✓ Murdock- A shagbark. Of far northern origin, original tree grows on the shore of Lake Champlain a few miles north of the village of Crown Point, N. Y. Cracking quality good, flavor very best, size of nut about medium. This variety should succeed to the northern limits of the shagbark.

✓ Neilson- A shagbark. The original tree grows in Ontario, Canada. It is considered one of the best and should do well in the North. Rated A. by Reed. Recommended by Dr. MacDaniels in "Arnoldia".

✓ Shaul- We do not know when this variety was discovered or where it originates. Rated B by Reed.

✓ Stratford- A Shagbark. We do not know where this variety originates but probably from Iowa as it was introduced in 1920 by Snyder Bros. Rated B. by Reed.

✓ Swaim- A Shagbark. Original tree grows near South Bend, Ind. So cannot be too certain for the far north until it has proven itself. Rated B by Reed.

✓ Watson- A. Shagbark. Original tree grows near Portsmouth, N. H. won seventh place in the New York & New England 1934 contest. Should be a good variety for the far north.

✓ Weschcke- A Shagbark. This variety comes from Iowa and is recommended highly by Mr. Carl Weschcke, St. Paul, Minn. so must be well adapted to the far north.

✓ Whitney- A Shagbark. First prize in Ohio 1934 contest. Original tree grows near Bersa, Ohio. Rated A by Reed. Recommended by Dr. MacDaniels in "Arnoldia"

✓ Wilcox- A Shagbark. Second prize winner in Ohio 1934 contest. original tree grows near Geneva, Ohio. Rated B by Reed. Recommended by Dr. MacDaniels in "Arnoldia"

We have some fine grafts of each of the varieties listed. They are on bitternut stocks. We have found these stocks as good as any, everything considered.

Prices of all hickory trees are \$3.00 each. The one year old grafts are very small. We have a few two-year old grafts of some varieties and will fill the first orders with these as long as the supply lasts. We do not advise waiting for the grafts to become two years old as the sooner a hickory is set the better.

BLACK WALNUTS

✓ Allen- The original tree grows near Middleville, Mich. 42 deg. 45 min. N. Latitude. First prize winner in 1932-33 Michigan contest. Looks like one of the best for northern planting. Recommended by Dr. MacDaniels in "Arnoldia".

✓ Benton- The original tree grows on Mr. Benton's home farm 41 deg. 45 min. N. Lat. Won second prize in New York & New England 1934. contest.

✓ Booth- The original tree grows near Bonsack, Va. 37 deg. 20 min. N. Lat. Recommended only for more southern planting at this time. We have a graft of this variety with seven nuts on it this fall so may know more about it by winter.

✓ Bowman- We have only one tree of this variety for sale and know nothing about the variety.

✓ Clark- The original tree grows near Lamoille, Minn. 44 deg. N. Lat. Won fourth prize in 1934 Northern Nut Growers Assn. contest. Looks like another good one for the north. Recommended by Dr. MacDaniels in "Arnoldia".

- ✓ Doyle- We have two trees of this variety for sale. We know nothing about it.
- ✓ Korn- The original tree grows near Berrien Springs, Mich. 42 deg. 15 min. North Latitude.
- ✓ Mintle- The original tree grows near Glenwood, Iowa. 41 deg. North Latitude.
- ✓ Monterey- The original tree grows near Bird in Hand, Penn. 40 deg. 5 min. North Latitude.
- ✓ Ohio- The original tree grows near McCutcheonville, Ohio. 41 deg. N. Latitude. One of the older varieties.
- ✓ Pine Crest- The original tree of this variety grows near Richfield, Penn. 40 deg. 45 min. North Latitude.
- ✓ Sifford- The original tree grows near Buchanan, Va. 37 deg. 31 min. N. Lat. Recommended only for southern planting until it has fruited here.
- ✓ Snyder- The original tree grows near Newfield, N. Y. 42 deg. 20 min. N. Lat. Won first prize in New York & New England 1934 contest. The nut is large, thin shelled, cracks out well. One of the very best varieties for northern planting. It matures it's nuts and fills out well here. Recommended by Dr. MacDaniels in "Arnoldia".
- ✓ Sparrow- The original tree grows near Lomax, Ill. 40 deg. 35 min. N. Lat. This variety fruited for us first in 1941, it was well filled and matured. A fine nut. Our graft has more nuts on this year so we will get another test this fall.
- ✓ Stabler- The original tree grows near Howard, Md. 39 deg. 10 min. N. Latitude. One of the older varieties.
- ✓ Stambough- The original tree grows near Galesburg, Ill. 40 deg. 8 min. N. Lat. This variety won first prize in the 1926 Northern Nut Growers Assn. contest. The nut is one of the best being large, thin shelled and of excellant cracking quality. Our graft bore nuts in 1940 and they were as well filled as most of the native varieties, the season was very poor in 1940. Our graft has nuts on again this year so we will get another test on it this fall.
- ✓ Stony Brook- This variety was discovered by Dr. MacDaniels of Cornell University. We believe the original tree is in Ohio.
- ✓ Tasterite- The original tree grows near Ithaca, N. Y. 42 deg. 25 min. N. Lat. Nut rather small but of excellant quality. We recommend it very highly. Recommended by Dr. MacDaniels in "Arnoldia".

- ✓ Thomas- Original tree grows near King of Prussia, Penn. 40 deg. 5 min. N. Latitude. This variety is the oldest and most nearly standard of any of the named varieties of black walnut, but it has failed to mature it's nuts here in three seasons of fruiting so we do not recommend it so far north at present.
- ✓ Throp- The original tree grows near Greensburg, Ind. 39deg. 20 min. N. Latitude. Fourth place in the the 1926 Northern Nut Growers Assn. contest.
- ✓ Todd- We believe this to be either a New York or Ohio nut. it is well recomended altho we know little about it.
- ✓ Vail- We know nothing about this variety.
- ✓ Wanda- The original tree grows near Moorhead, Iowa. 41deg. 15 min. N. Latitude. Well thought of by Prof. Drake.
- ✓ Wetzel- We know nothing about this variety.
- ✓ Wiard- Original tree grows near Upsilonti, Mich. 42 deg. 15 min. N. Latitude. Third prize winner in 1934 Northern Nut Growers Assn. contest. This looks like another good one for the far north. Recommended by Dr. MacDaniels in "Arnoldia".

Prices of all black walnut trees.

Over 5 feet	\$3.00
4 to 5 feet	\$2.50
3 to 4 feet	\$2.25
Under 3 feet	\$2.00

All measurements taken from point of grafting.

Terms- Cash with order except by special arrangement.
All prices F. O. B. Wassaic, N. Y.

These - Original tree grows near line of Russia, 1884, 40 deg. 3 min. N. latitude. This variety is the bluest and most nearly standard of any of the named varieties of black walnut, but it has failed to increase its range in this country of finding as we do not recommend it so far north as present.

These - The original tree grows near Cincinnati, Ind. 39 deg. 30 min. N. latitude. Some place in the 1880 Northern part of Ohio, contact.

These - We believe this to be either a New York or Ohio nut. It is well recommended also we know little about it.

Valley - We know nothing about this variety.

Wanda - The original tree grows near Lockport, low. 41 deg. 30 min. N. latitude. This variety is the bluest and most nearly standard of any of the named varieties of black walnut, but it has failed to increase its range in this country of finding as we do not recommend it so far north as present.

Wanda - We know nothing about this variety.

Wanda - Original tree grows near Upshanti, Mich. 42 deg. 15 min. N. latitude. This tree was in 1884 Northern part of the state. contact. This looks like another good one for the far north. Recommended by Dr. H. Schiller in "Arnoldia".

Prices of all black walnut crops.

Over 5 feet	12.00
4 to 5 feet	10.00
3 to 4 feet	8.00
Under 3 feet	6.00

All measurements taken from point of growth.

These - Cash with order except by special arrangement.
All prices F. O. B. Warsaw, N. Y.